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Amendments to the Abstract:

Please replace the abstract with the following new abstract:

A data transmission apparatus for implementing multiple service flow in a multiple service ring is described. The apparatus includes a trunk pipe and at least two nodes each with at least one flow. The apparatus also includes a flow Rx framer for converting data received from the flow into data packets of a predetermined protocol, a transmission setup device for setting up information for packets of the predetermined protocol to be transmitted, and a Tx framer for encapsulating the information into frames of the MSR and transmitting the same along the trunk pipe to a downstream neighbor node along the ring.